

ISSUE 33

THE DEVICE

MAR 2016

DISPRO OWNERS

ASSOCIATION NEWSLETTER

*the dippy
days of summer
are coming . . .*

www.disproboats.ca



President's Letter • March 2016

So, this was the winter that wasn't! What a difference from the many metres of snow and extremely cold temperatures of the last two years. All the better for getting our boats ready and going for that first cruise this spring. My goal is May 1st; what about you?

Our club continues to get stronger. We have 16 new members since our Centennial Event in Port Carling last August, a record in recent times! Welcome to each and every one of you. We trust you will join us at some or all of the upcoming events. Please be reminded that if you do not have a boat, just arrive at the appointed location and one of our members will give you a ride.

We have a full summer of exciting plans thanks to Past President, Eric Luks for planning three exciting UUMMTs, Vice President, Mike Windsor for organizing the Annual Regatta at Clevelands House, Muskoka and of course our upcoming Annual General Meeting, May 1st, to be held at the Opera House in Gravenhurst. Please note the change of location.

We are so honoured to have our Dispros as the feature boat at the Antique Boat Museum's Summer Boat Show in Clayton New York. The museum has two Dispros in their prestigious collection and they are so excited about welcoming many more for a weekend. If you have not booked accommodation, it might be a good idea to do so very soon. We hope to see you there.

We are also excited to welcome Epifanes as our first Official Sponsor. Under the leadership of Gord Laco, this company has been supporting the Dispro Owners Association for several years with the gift of several cans of varnish for our Regatta. Thanks to Gord and Epifanes for their continued support.

The Antique and Classic Boat Society – Toronto are featuring all Greavette boats at their summer show in Gravenhurst July 9th. If you have a Greavette Dispro I encourage you to bring it to the show. We also need volunteers in our DOA booth. If you can spare a couple of hours, please contact Helen Byrne.

Thanks also to three members of the club who have donated volunteer hours recently. Denis Howchin has spent several hours this winter organizing our archival materials for a 'How TO' manual/website. Karen Boyer has helped organize the archives for the club. Over due from last summer, is a thank you to Eric Luks for the many hours he spent creating paddles with the club logo. His hours have resulted in a large donation to the club's treasury.

I look forward to seeing each of you at the Annual General Meeting, May 1st.

Mary



2016 Annual General Meeting

Please note the new venue for this year's AGM.

2016 Annual General Meeting May 1, 2016

Gravenhurst Opera House (Trillium Court, Main Floor)
295 Muskoka Road South, Gravenhurst

- 11 am – Coffee and socializing
- Noon – Lunch
- 1 pm – Annual Meeting

Cost – \$25.00 per person

*Registration form enclosed. Please return to Mary Storey by **Friday, April 22, 2016***



A Summary of Dispro Patents

#161292 – Applied for October 23, 1914; Issued March 16, 1915

Inventor: William James Johnston who assigned half interest to Richard Alexander Shields. This was to be the fundamental patent. Haul up only, no propeller protection.

#170381 – Applied for December 21, 1915; Issued May 8, 1917

Inventor: William James Johnston, half interest assigned to J. C. R. Hodgson. This was the 'ratchet device' with automatic propeller protection.

#214047 – Applied for January 15, 1921; Issued November 1, 1921

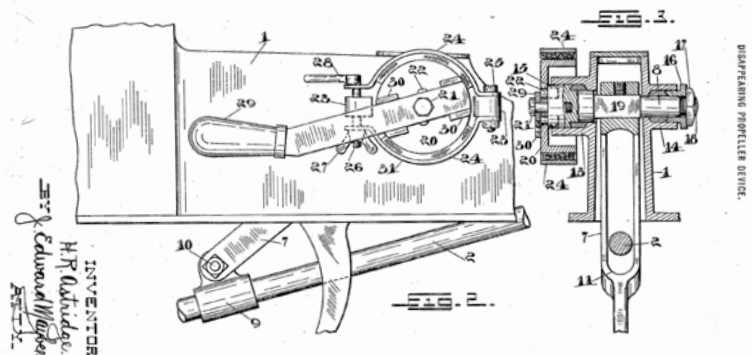
Inventor: Andrew Dyas McLean. This design was never adopted. It provides reversing capability by the use of spoilers which operate on the principle of the Kitchen Rudder.

#265399 – Applied for April 7, 1922; Issued November 14, 1922

Inventor: Henry R. Astridge who assigned ownership to the Disappearing Propeller Boat Co. Ltd. This is the familiar 'brake device' which is the only one that properly worked. It was issued from 1922 to the end of production in 1956.

All of these designs (except #214047) were patented in the United States and foreign countries as well. See the book, *Greatest Little Motor Boat Afloat*, for more details.

Paul Dodington



Upcoming Events in 2016

Just a reminder to members that UUMMT's are unorganized and unauthorized and as such the DOA leadership is not in any way responsible for any misadventure that might accidentally occur during any such event. These "mini tours" are fun and we look forward to them each year, but please exercise caution and be safe.

Sun. May 1 – AGM at Gravenhurst Opera House

11 am Enjoy lunch with fellow members and get caught up with all the news!
The registration form is included with this mailing so please, don't forget to **return registration form to Mary Storey by Friday, April 22.**

Sat. June 18 – UUMMT 32 – Twelve Mile Bay, Georgian Bay

Launch: Moose Deer Point Marina, at 10:00 am

This will be a relatively protected excursion in the bay and around islands. Our hosts Helen and Stan Byrne are inviting us to stop at their island cottage for a pit stop and a place to enjoy your picnic lunch.

Directions: Exit Hwy 400 at #185 (Hwy 12) onto Twelve Mile Bay Rd. and travel west on a newly paved road for about 12 miles to Moose Deer Point Marina operated by a First Nation. This is a full service marina with restaurant and washroom facilities however the launching and parking fees total \$30.00. As an alternative there is a free public launching facility with parking about ½ Km further along the road but there are no facilities and it is first come basis. This early in June we would not expect it to be crowded. With the two launching options we will rendezvous in the bay adjacent to the public wharf before proceeding on with the excursion led by the nautically experienced Byrnes. Georgian Bay is not much fun in the rain and wind, so the alternative date is the next day, Sunday June 19th. If there is uncertainty as to whether the weather is sufficiently inclement to move forward to the next alternative date please call or text me at 416-666-6256 the night before.

Sat. July 16 – UUMMT 33 – Indian River to Lake Muskoka and Bala

Launch: Hanna Park, Port Carling at 10:00 am

There are facilities and ample parking at Hanna Park and we will be cruising south on the Indian River to Lake Muskoka and on to Bala to enjoy our picnic lunch and then back again later in afternoon.

Directions: Proceed to Port Carling along Hwy 118. At the south end of Port Carling turn west onto Bailey St (at the Municipal Offices) and continue a short distance to the launching ramp by the river. Some of us may want to stay on for dinner at Ella's restaurant in Port Carling and as they do not usually serve dinner on Saturdays, I will take a count in the morning and advise the restaurant as to numbers expected.

Fri. Aug. 5 to Sun. Aug. 7 – UUMMT 34 – 52nd Annual Boat Show, Clayton, NY

This UUMMT will take us to Clayton NY for the 52nd Annual Antique Boat Show. The Dispro will be the featured boat this year and we are especially invited to attend. It is interesting that the US patent was not registered until

1916 and as such this will be the US centennial for the Dippy. There is a full program planned for the three days including cruising tours. The details of the event are included with this mailing including registration information. You might want to go to the internet to investigate accommodation options in Clayton as this is a very popular event. Margaret Hummel from the Museum suggests the following websites:

<http://www.1000islands-clayton.com/stay-thousand-islands/motels-resorts/>
and <http://www.visit1000islands.com/places-to-stay/>.

She further suggests that groups might want to rent a cottage to share costs and one might find one with docks to travel back and forth by boat. Check on vrbo.com or Airbnb.com. One could consider nearby places within driving distances follows: Alex Bay 15-20 mins, Cape Vincent 20 mins, or Watertown 30 minutes away.

For further information about this special event, please call:

Eric Luks at 705-765-76256 or **Mary Storey** at 705-684-9560.



Bring your Dispro to the Antique Boat Museum 52nd Antique Boat Show

August 5-7, 2016 • Clayton, NY, USA

Lots of boating on the St. Lawrence River, lots of events to attend.

Let's have fun south of the border!

Questions? Contact Eric Luks or Mary Storey

Registration: <http://www.abm.org/index.php/events/antique-boat-show-and-auction/>

OR by paper at DOA Annual General Meeting

Fri. Sept. 9 to Sunday Sept. 11 – Annual DOA Regatta, Cleavelands House

The 38th Annual DOA Regatta will again be held at Cleavelands House, MInett, Muskoka. Two forms for the regatta are enclosed with this mailing. Please complete both forms and send them back as soon as possible. The **Reservation Form is for Cleavelands House**, to be returned to Cleavelands House, to secure your accommodations, meals, etc. The **Registration Form is for the DOA**, to cover nametags, charts and the Wine and Cheese Event. This form gets returned to Barb Dickson. Also, **this year is auction year** so start gathering up your treasures to donate to this great event. It's always fast paced and lots of fun.

Eric Luks

Plan to attend all the great events!

An Interesting Dippy Test

After giving the presentation about propellers some time ago to the DOA, I thought about what was actually happening when we go for a nice summer evening cruise in our Dippy.

The engine converts petroleum products into a linear motion (the piston going up and down) , which is then converted to rotating motion by the crankshaft, which transmitted to the propeller by the drive shaft, which then converts it back to linear motion by driving the boat forward.

The forward thrust of the propeller is used to overcome the friction and resistance to motion of the boat hull and its accessories (skeg, rudder etc.). I asked some straightforward questions:

What is that resistance? How could I measure it in a real boat?

I came up with the idea that it would be relatively simple to do some “pull” tests to answer those questions.

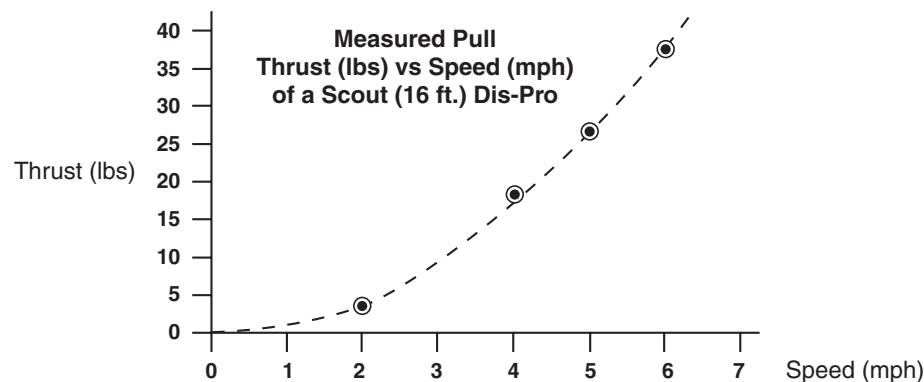
It took some time for the idea to come to fruition, but recently, I bought a simple luggage weigh scale, and convinced my good friend Tom, (who is one of the founders of the DOA) to pull my Dippy at a number of different speeds while I measured the tension on the pulling rope with the weigh scale.

We also measured the top speed of my Dippy, a Scout model – 16 ft or slightly less at the water line. It was between 5 and 6 miles per hour measured on Tom's GPS tablet app.

We chose a nice autumn day, when it was cool (darned cold really), so there were no jet skis or wake boats to create waves and we used a rope long enough to make sure the Dippy was moving through (more or less) undisturbed water. I left the propeller and skeg in the down position since they are contributors to the resistance to motion of the hull.

	Speed (miles per hour)	Pull (lbs)
	2	3.6
So here are the results.	4	18.5
	5	26.5
	6	37.5

We did each speed for about a minute or so to make sure we had a good reading on the weigh scale. Plotting the results I found that the test shows a non-linear curve of speed versus thrust as expected.



Assuming that my Dippy underway, in quiet water with no significant wind, was making about 5.5 miles per hour, I estimate that the forward thrust of the propeller to be about 30 lbs.

The propeller is mounted on a shaft which is about 15 – 20 degrees off the horizontal which makes the thrust on the shaft to be about 32 lbs. This is the thrust produced by my propeller to make my Dippy move at its top speed (5.5 mph) .

Many DOA members are familiar with the concept of terminal hull speed for displacement hulls. The formula, being $1.55 \times \sqrt{\text{waterline length ft}}$ in mph. For my Dippy the terminal hull speed is 6.2 miles per hour. If we had gone to a higher speed eg 8 mph, I don't think I would have been able to hang onto the scale and rope. I estimate the the pull thrust would have been in the range of 90-100 lbs.

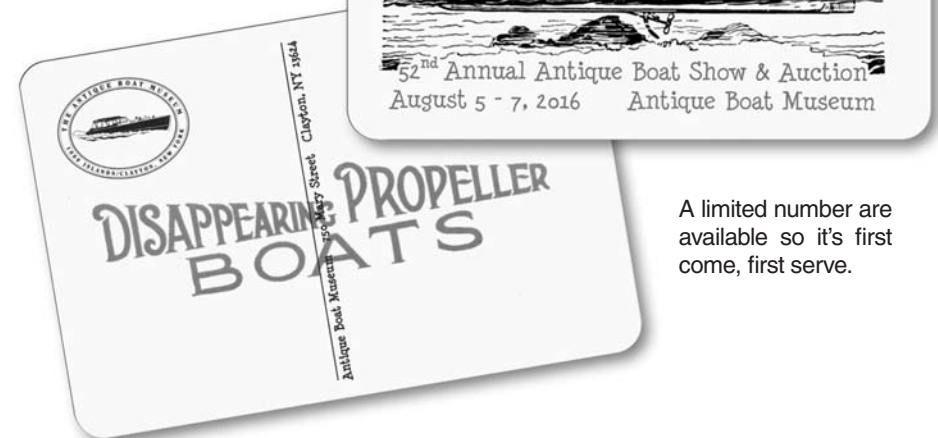
Now, most of the members of the DOA have the longer version of the Dippy – 18 ft, and some are even longer. It would be interesting for other DOA members to repeat the measurements and get addition data to see how different the shorter Dippy and the longer ones are. If the tests are repeated, I learned, subsequent to the tests, that the prop SHOULD be pulled up – it does not contribute to the drag when running.

Members can contact me to get the details of the rigging that Tom and I used in the tests.

Miro Forest, P.Eng.
Port Carling

Boat Show Postcard

At this year's AGM, you can pick up a free souvenir postcard issued by the Antique Boat Museum in Clayton, NY to promote their 2016 Boat Show and Auction, with the Dispro as the featured boat.



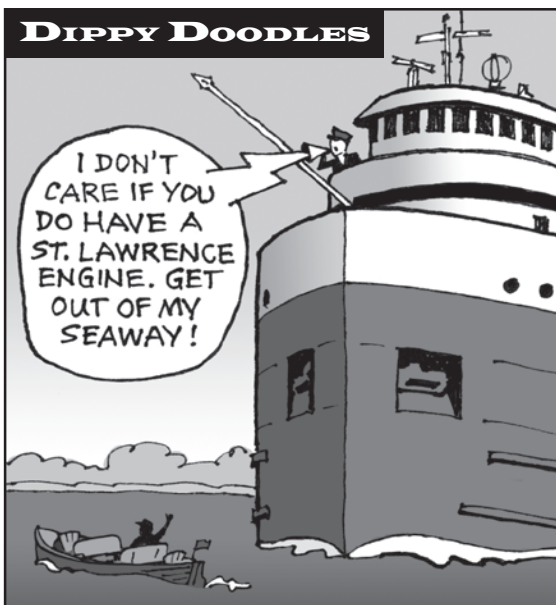
A limited number are available so it's first come, first serve.

Of Dippy Boats and Bigger Ships



Photo: Paul Jenner

Mike Windsor going full throttle to keep pace with Wenonah II.



Cartoon: Paul Jenner



Gordon Laco

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